

PRODUCT-DETAILS

# B23 112-100

## B23 112-100, Energy meter'Steel', Modbus RS485, Three-phase, 5 A



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | B23 112-100   |
| Product ID            | 2CMA100164R1000   |
| ABB Type Designation  | B23 112-100   |
| EAN                   | 7392696001649   |
| Catalog Description   | B23 112-100, Energy meter'Steel', Modbus RS485, Three-phase, 5 A  |
| Long Description      | Advanced compact DIN-rail meter with an easy to read back lighted display. The meter is intended for use in the commercial or residential buildings etc. The meter can be used in 3 or 4 wire systems. The meter has several instrumentation values, 25 possible alarms and event logs. Three phase direct connected for active energy. One output for pulses or alarm etc. RS-485 communication over Modbus RTU or EQ Bus. Accuracy class 1.0 (or B for MID meters). The meters is IEC approved + MID approved and verified. |

### Eco Transparency

|   |                 |
|---|-----------------|
| Environmental Product Declaration - EPD | 9AKK108467A4138 |
|---|-----------------|

### Technical

|           |                   |
|-----------|-------------------|
| Standards | EN 50470-1        |
| Function  | Electricity meter |

|                                  |  |
|----------------------------------|--|
| Sub-Function                     | Steel  |
| Rated Voltage ( $U_r$ )          | 3x220-240 V  |
| Voltage Range                    | 3x176...276 V  |
| Rated Current ( $I_n$ )          | 5 A<br>Maximum 65 A  |
| Current Rating                   | 5 A  |
| Rated Frequency (f)              | 50 / 60 Hz<br>0.721 W  |
| Communication Interface          | Modbus RS485   |
| Accuracy                         | Active Energy Class B MID ( $\pm 1\%$ )  |
| Measuring Instrument Conformity  | Measurement Instrument Directive (MID)   |
| Meter Tariff Rating              | One-Tariff   |
| Pulse Output Rate                | 1-999999   |
| Number of Poles                  | 4  |
| Number of Phases                 | Three-phase  |
| Number of Counter Positions      | 7  |
| Number of Digital In/Outputs     | 1 DO   |
| Meter Type                       | Direct connected   |
| Mounting Type                    | DIN-Rail   |
| Pulse Output Type                | Electrical   |
| Type of Indicator                | Digital  |
| Enclosure Material               | Polycarbonate in transparent front glass. Glass reinforced polycarbonate in bottom case and upper case. Polycarbonate in terminal cover. |
| I/O Option                       | 1 digital output   |
| Communication                    | Modbus RTU   |
| Connecting Capacity Main Circuit | 1 ... 25 mm <sup>2</sup>   |

## Environmental

|   |   |
|---|---|
| Ambient Air Temperature                     | Operation -40 ... 70 °C   |
| Degree of Protection                        | IP20  |
| RoHS Status                                 | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| RoHS Information                            | 2CMC485006  |
| Environmental Information                   | 2CMC485003D0001   |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363   |

## Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 4        |
| Product Net Width                   | 70 mm    |
| Product Net Height                  | 26.5 mm  |
| Product Net Depth / Length          | 65 mm    |
| Product Net Weight                  | 0.32 kg  |
| Size                                | 97X70X65 |

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## Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.39 kg     |
| E-Number (Finland)           | 6625034     |
| E-Number (Sweden)            | 0900037     |

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## Certificates and Declarations

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|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CMC485001D0001 |
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## Installation

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|--------------------------|-----------------|
| Instructions and Manuals | 2CMC485019M0201 |
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## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CMC485003M0201 |
|-----------------------------------|-----------------|

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## Classifications

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|----------------------------|--|
| ETIM 8                     | EC001506 - Kilowatt-hour meter                             |
| ETIM 9                     | EC001506 - Kilowatt-hour meter                             |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B             | Business To Consumer                                       |
| CN8                        | 90283019   |
| eClass                     | V11.0 : 27142316   |
| Object Classification Code | P  |

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## Accessories

| Identifier      | Description  | Type       | Quantity | Unit Of Measure |
|-----------------|--|------------|----------|-----------------|
| 2CCG000242R0001 | SCU100 Control unit                                      | SCU100     | 1        | piece           |
| 2CDG110226R0011 | QA/S3.16.1 Energy Analyzer, M-Bus, 16 Devices, MDRC      | QA/S3.16.1 | 1        | piece           |
| 2CDG110227R0011 | QA/S3.64.1 Energy Analyzer, M-Bus, 64 Devices, MDRC      | QA/S3.64.1 | 1        | piece           |
| 2CDG110228R0011 | QA/S4.16.1 Energy Analyzer, Modbus RTU, 16 Devices, MDRC | QA/S4.16.1 | 1        | piece           |
| 2CDG110229R0011 | QA/S4.64.1 Energy Analyzer, Modbus RTU, 64 Devices, MDRC | QA/S4.64.1 | 1        | piece           |
| 2CDG110224R0011 | QA/S1.16.1 Energy Analyzer, KNX, 16 Devices, MDRC        | QA/S1.16.1 | 1        | piece           |

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → Energy Efficiency Devices → Energy Meters

